

A REVIEW OF CHROMOSOME NUMBERS IN THE GESNERIACEAE

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Of the 135 known genera of the Gesneriaceae, 71 have had a count made of the chromosome complement of at least one species. A few genera are well known cytologically relative to the number of species, e.g., *Streptocarpus*, *Columnea*, *Sinningia*, etc. This knowledge reflects the fact that workers have specialized in certain genera and that the well-known genera have received particular attention due to their horticultural value. Other genera, e.g., *Cyrtandra* and *Besleria* in particular, have had little study relative to the numbers of known species. These two genera, each having hundreds of species, have had only a few counts made. They have little horticultural potential and thus are seldom grown in cultivation for counts to be made from living plants.

The earliest reported chromosome count in the Gesneriaceae was made in 1923 by Oehlkers who studied *Monophyllaea horsfieldii* R. Br. Most of the more recent counts were made during the decade of the 1960's by R. E. Lee, primarily working on the New World Gesneriaceae (Gesnerioideae), at Cornell University in Ithaca, NY, and by J. A. Ratter and his colleagues, primarily working on the Old World Gesneriaceae (Cyrtandroideae), at the Royal Botanic Garden, Edinburgh, UK. Each examined and reported on a broad range of genera. Several additional counts have been reported every year since (Skog 1982).

Although many additional species of Gesneriaceae are available in cultivation (mostly from wild origin), counting and the subsequent study of chromosomal morphology have been hampered by the small size of the chromosomes. Ratter (1975) reports the smallest (less than 1 μm) observed chromosomes in *Aeschynanthus* and *Cyrtandra*. The largest known are in a species of *Agamyla* (over 3 μm in length).

The chromosome number ranges widely among the genera of the Gesneriaceae. Thirty different numbers are so far known. The most frequent count is $n = 9$, found in 13 genera. Two other peaks occur at $n = 13$ and $n = 16$, these numbers found in 11 genera each. The lowest count known is $n = 4$ found in *Chirita pumila* D. Don. This low count probably is another example of the trend toward reduced DNA in weedy, short-lived, herbaceous species (Bennett 1972). The highest known count is $n = 64$ for *Streptocarpus hildebrandtii* Vatke from Madagascar.

More than one haploid chromosome number can occur among the different species in a genus. Genera of the Cyrtandroideae appear to be less uniform in chromosome number and appear particularly prone to dysploidy. *Didymocarpus* has 11 different haploid counts known — 9, 11, 12, 14, 16, 18, 19, 22, 27, 28, and ± 45 . The closely related *Chirita* has 7 known haploid numbers — 4, 9, 10, 14, 16, 17, and 18. *Aeschynanthus*, *Boea* and *Streptocarpus* each have 5 different haploid counts. In the New World subfamily Gesnerioideae no genus has more than 3 different known haploid counts, e.g., *Achimenes*, *Gesneria*. The apparent uniformity of numbers in the Gesnerioideae has been a strong factor when combined with breeding data to unite genera, e.g., *Hypocyrta* with *Nematanthus*, *Rechsteineria* with *Sinningia* (Moore 1973). In addition, the uniformity of differing basic numbers has been used as the determining factor in segregating species in a genus into one

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or more genera, e.g., *Moussonia* from *Kohleria* (Wiehler 1975b) and *Eucomis* from *Achimenes* (Wiehler 1976). In the latter case the difference in the basic chromosome number and the lack of fertile hybrids between the two genera (as measured by pollen fertility) outweighed the lack of any apparent decisive morphological differences in segregating the two genera. Little combining or segregating of genera based on chromosome counts or hybrid sterility has occurred in the Cyrtandroideae.

As can be seen from the list of chromosome counts that follows, polyploidy seems to be an occasional occurrence, seemingly more common in the Cyrtandroideae than in the Gesnerioideae as pointed out by Ratter (1975). Ratter considered the ancestral basic number in the Cyrtandroideae to be 8 or 9 and that the diversification and speciation of genera such as *Cyrtandra*, *Saintpaulia*, and *Streptocarpus* has taken place at the tetraploid level. In the Gesnerioideae the most common basic number is $x = 9$ with $x = 13$ being next most common.

Polyplody within one species very rarely extends beyond the tetraploid level, but 3 levels of ploidy are found in *Aeschynanthus ellipticus* Lauterb. & K. Schum. with $n = 16$, 32, and 48. *Haberlea rhodopensis* Friv. with $n = 19$, 22, and 24 is one of the more striking examples of differing counts within a single species that appears in the list below.

The counts in the following list are either gametic (n) or somatic ($2n$) as given in the original publication. The names of the plants follow current usage.

TAXON	<i>n</i>	<i>2n</i>	REFERENCE
ACHIMENES			
<i>antirrhina</i> (DC.) Morton	11		Cooke, in Lee 1962a
<i>baum</i> , var. <i>coerulea</i> Sean. (sic)	11		Eberle 1956
<i>candida</i> Lindl.	11		Lee & Grear 1963
<i>cettoana</i> H. E. Moore	11		Cooke, in Lee 1962a
<i>dulcis</i> Morton	11		Lee 1962b
<i>erecta</i> (Lam.) H. P. Fuchs	22		Davidse 1981
<i>erecta</i> (Lam.) H. P. Fuchs as <i>Achimenes coccinea</i> (Scop.) Pers.	22		Lee 1962b
<i>fimbriata</i> Rose ex Morton	11		Cooke, in Lee 1962a
<i>flava</i> Morton	11		Cooke, in Lee 1962a
<i>giesbrechtii</i> ? (sic)	11		Eberle 1956
<i>glabrata</i> (Zucc.) Fritsch	11		Lee & Grear 1963
<i>grandiflora</i> (Schiede) DC.	11		Eberle 1956
<i>heterophylla</i> (Mart.) DC.	11		Lee 1962b; Lee & Grear 1963
<i>hirsuta</i> DC.	11		Eberle 1956
'Little Beauty'	11		Eberle 1956
<i>longiflora</i> DC.	11		Eberle 1956; Davidse 1981
<i>mexicana</i> (Seem.) Benth & Hook. f. ex Fritsch	11		Lee & Grear 1963
<i>mex.</i> var. <i>coerulea</i> Sean. (sic)	11		Eberle 1956
<i>misera</i> Lindl.	22		Lee 1966a
<i>obscura</i> Morton	11		Lee & Grear 1963
<i>patens</i> Benth.	11		Lee & Grear 1963
<i>pedunculata</i> Benth.		±34	Fussell 1958
<i>pedunculata</i> Benth.		34	Cooke & Lee 1966
<i>skinneri</i> Lindl.		±22, ±34	Fussell 1958

TAXON	n	2n	REFERENCE
ACHIMENES (continued)			
<i>warszewicziana</i> (Regel) H. E. Moore	22		Fussell 1958
(incorrectly identified as <i>Achimenes misera</i> Lindl.)			
<i>woodii</i> Morton	11		Cooke 1962
AESCHYNANTHUS			
<i>albidus</i> (Bl.) Steud.	30		Milne 1975
<i>ellipticus</i> Lauterb. & K. Schum.	64		Ratter 1963
<i>ellipticus</i> Lauterb. & K. Schum.	96		Ratter & Prentice 1964
<i>ellipticus</i> Lauterb. & K. Schum.	32		Milne 1975
<i>fecundus</i> P. Woods	16		Ratter & Milne 1970; Ratter 1975
<i>guttatus</i> P. Woods	32		Milne 1975
<i>horsfieldii</i> R. Br.	32		Milne 1975
<i>hosseussii</i> Pellegrin	32		Ratter 1963
<i>javanicus</i> Hort. Rollisson ex Hook.	32		Eberle 1956
<i>lamponga</i> Miq.	32		Eberle 1956
<i>lineatus</i> Craib	30		Milne 1975
<i>lobbianus</i> Hort. Veitch ex Hook.	32		Eberle 1956
<i>longicalyx</i> Ridl.	32		Milne 1975
<i>longicaulis</i> R. Br.	30		Rogers 1954; Ratter & Prentice 1964
as <i>Aeschynanthus marmoratus</i> T. Moore			Eberle 1956
<i>longicaulis</i> R. Br.	14		
as <i>Aeschynanthus marmoratus</i> T. Moore			
<i>longiflorus</i> (Bl.) A. DC.	30		Fussell 1958; Ratter 1963
<i>myrmecophilus</i> P. Woods	64		Milne 1975
<i>nummularius</i> (Burk. & S. Moore) K. Schum.	64		Ratter 1963; Ratter & Milne 1970
<i>obconicus</i> C. B. Cl.	16		Ratter & Prentice 1967
<i>papuanus</i> (Schltr.) B. L. Burtt	32		Milne 1975
<i>parasiticus</i> (Roxb.) Wallich	16		Malla et al. 1978
<i>parasiticus</i> (Roxb.) Wallich	30		Rogers, in Lee 1962a
as <i>Aeschynanthus grandiflorus</i> (D. Don) K. Spreng.			
<i>parasiticus</i> (Roxb.) Wallich	16		Eberle 1956
as <i>Aeschynanthus grandiflorus</i> (D. Don) K. Spreng.			
<i>parviflorus</i> (D. Don) K. Spreng.	32		Ratter 1963
<i>parvifolius</i> R. Br.	64		Ratter & Milne 1970
<i>perakensis</i> Ridl.	30		Ratter & Prentice 1964
	(28 & 21)		
<i>praelongus</i> Kraenzl.	16		Ratter & Milne 1970
<i>pulcher</i> (Bl.) G. Don	60		Rogers 1954
<i>pulcher</i> (Bl.) G. Don	64		Ratter 1963
<i>pulcher</i> (Bl.) G. Don	32		Eberle 1956
<i>radicans</i> Jack	15	32	Ratter & Milne 1970
<i>sikkimensis</i> Stapf	32		Ratter 1963; Ratter & Milne 1970
<i>speciosus</i> Hook.	32		Eberle 1956
<i>X splendidus</i> T. Moore	32		Ratter 1963; Ratter & Prentice 1964; Ratter 1975
(incorrectly identified as <i>Aeschynanthus parasiticus</i> (Roxb.) Wallich)			
<i>tricolor</i> Hook.	32		Ratter & Milne 1970

Taxon	n	2n	Reference
AESCHYNANTHUS (continued)			
<i>tricolor</i> Hook.	16		Eberle 1956; Eberle 1957a
sp. (G-260, received as <i>Aeschynanthus micranthus</i> C. B. Cl.)	15		Lee 1962a
sp. (from New Guinea)	60		Borgmann 1964
AGALMYLA			
<i>borneensis</i> (Schltr.) B. L. Burtt as <i>Dichrotrichum</i> sp. C4045	16		Ratter & Prentice 1967
<i>borneensis</i> (Schltr.) B. L. Burtt as <i>Dichrotrichum</i> sp. C4045	32		Ratter & Prentice 1964
<i>parasitica</i> (Lam.) O. Kuntze	16		Fussell 1958
<i>parasitica</i> (Lam.) O. Kuntze	32		Ratter 1963
sp., as <i>Dichrotrichum</i> sp. 60-811 and <i>Dichrotrichum amabile</i> S. Moore	32		Ratter & Prentice 1964; Ratter 1975
ALLOPLECTUS			
<i>calochlamys</i> J. D. Sm.	9		Lee 1967
<i>cristatus</i> (L.) Mart.	18		Morley 1967
<i>cristatus</i> (L.) Mart. var. <i>brevicalyx</i> Morton	9		Wiehler 1972
<i>hispidus</i> (Kunth) Mart.	9		Wiehler 1972
<i>ichthyoderma</i> Hanst.	9		Davidse 1970
<i>tetragonos</i> (Hanst.) Hanst.	9		Davidse 1981; Wiehler 1972
<i>teuscheri</i> (Raym.) Wiehl.	9		Wiehler 1972
ANCYLOSTEMON			
<i>convexus</i> Craib	17	34	Ratter & Prentice 1964
BECCARINDA			
<i>cordifolia</i> (Anthony) B. L. Burtt	20		Ratter & Prentice 1964
BELLONIA			
<i>spinosa</i> Sw.	13		Lee 1966b
BESLERIA			
<i>disgrega</i> Morton	16		Wiehler 1972
<i>lutea</i> L.	16		Lee 1966a
BOEA			
<i>hemsleyana</i> B. L. Burtt as <i>Boea</i> sp. from Solomon Islands	16		Ratter & Milne 1970; Ratter 1975
<i>herbacea</i> C. B. Cl.	36		Ratter & Milne 1970
<i>hygroscopicia</i> F. v. Muell.	8		Lee 1962a; Ratter 1963
<i>kerrii</i> Craib	17		Milne 1975
<i>lawesii</i> (F. v. Muell.) H. O. Forbes	8	16	Ratter & Prentice 1967
<i>magellanica</i> Lam.	8	16	Ratter & Milne 1970
<i>magellanica</i> Lam.			Ratter & Prentice 1964
<i>reticulata</i> Barnett	9		Milne 1975
<i>speluncarum</i> B. L. Burtt as <i>Boea</i> sp. from Sarawak	16		Ratter & Prentice 1967; Ratter 1975
BRIGGSIA			
<i>aurantiaca</i> B. L. Burtt	34		Ratter 1963
<i>muscicola</i> (Diels) Craib	68		Ratter & Prentice 1964

Taxon	n	2n	Reference
CAPANEA			
<i>grandiflora</i> (Kunth) Decne. ex Planch. as <i>Campanea oerstedii</i> (Kl.) Oerst.	13		Davidse 1970
CHIRITA			
<i>anachoreta</i> Hance		18	Ratter 1963
<i>asperifolia</i> (Bl.) B. L. Burtt	16	32	Ratter & Prentice 1967
<i>asperifolia</i> (Bl.) B. L. Burtt as <i>Chirita blumei</i> C. B. Cl.	14		Lee 1962a; Ratter 1975
<i>bifolia</i> D. Don	14		Vasudevan 1976
<i>bimaculata</i> D. Wood	17		Milne 1975
<i>caerulea</i> R. Br.	9		Milne 1975
<i>caliginosa</i> C. B. Cl.	9		Ratter & Prentice 1967
<i>hamosa</i> R. Br.	17		Milne 1975
<i>involucrata</i> Craib	9		Milne 1975
<i>lavandulacea</i> Stapf		34	Rogers 1954; Ratter & Prentice 1964
<i>lavandulacea</i> Stapf	18		Sugiura 1938
<i>lavandulacea</i> Stapf as <i>Didymocarpus "lavandulacea"</i>	18		Sugiura 1940b
<i>macrophylla</i> Wall.	9	18	Ratter & Prentice 1967
<i>micromusa</i> B. L. Burtt	17		Ratter & Milne 1970
<i>pumila</i> D. Don	4		Ratter 1963
<i>sericea</i> Ridley		18	Ratter 1963
<i>sinensis</i> Lindl.		36	Ratter & Prentice 1964
<i>speciosa</i> Kurz as <i>Chirita trailliana</i> Forrest & W. W. Sm.		18	Fussell 1958; Ratter 1963; Ratter 1975
<i>urticifolia</i> Buch.-Ham. ex D. Don		34	Ratter & Prentice 1964
<i>walkeri</i> Gardner	9		Milne 1975
<i>zeylanica</i> Hook.	10		Ratter & Prentice 1967
sp. from Thailand	9		Milne 1975
CHRYSOTHEMIS			
<i>friedrichsthaliana</i> (Hanst.) H. E. Moore	9		Lee 1966a
<i>pulchella</i> (Donn ex Sims) Decne.	9		Lee 1962a; Davidse 1971
CODONANTHE			
<i>calcarata</i> (Miq.) Hanst.	16		Wiehler 1975d
<i>caribaea</i> Urban as <i>Codonanthe triplinervia</i> Britt.	8		Lee 1966b; Wiehler 1975d
<i>corniculata</i> Wiehl. as <i>Codonanthe</i> sp. G-932	16		Wiehler 1975d; Wiehler 1977
<i>crassifolia</i> (Focke) Morton		32	Morley 1967
<i>crassifolia</i> (Focke) Morton	16		Wiehler 1975d
<i>devosiana</i> Lem.	8		Wiehler 1975d
<i>digna</i> Wiehl.	8		Oliver & Skog 1981
? <i>gracilis</i> (Mart.) Hanst.	8		Wiehler 1975d
<i>luteola</i> Wiehl.	8,16		Wiehler 1975d
<i>luteola</i> Wiehl.	16		Oliver & Skog 1981
<i>macradenia</i> J. D. Sm.	16		Lee & Grear 1963; Wiehler 1975d
<i>macradenia</i> J. D. Sm. (incorrectly identified as <i>Codonanthe crassifolia</i> G-70)	16		Fussell 1958
<i>picta</i> Lem.	16		Wiehler 1975d

Taxon	n	2n	Reference
CODONANTHE (continued)			
<i>uleana</i> Fritsch	16		Wiehler 1975d
<i>uleana</i> Fritsch as <i>Codonanthe decurrens</i> I. M. Johnst.		32	Morley 1967
CODONANTHOPSIS			
<i>dissimulata</i> (H. E. Moore) Wiehl.	9		Wiehler 1978
COLUMNEA			
<i>affinis</i> Morton	18		Fussell 1958
<i>allenii</i> Morton	18		Fussell 1958; Morley 1967
<i>ambigua</i> (Urban) B. Morley as <i>Alloplectus ambiguus</i> Urban	36		Morley 1967
<i>ambigua</i> (Urban) B. Morley as <i>Alloplectus ambiguus</i> Urban	18		Lee 1964
<i>angustata</i> (Wiehl.) L. Skog as <i>Columnnea</i> sp. from Costa Rica (G-361)	9		Sherk, in Lee 1962a
<i>anisophylla</i> DC. as <i>Columnnea warscewicziana</i> (Kl. ex Oerst.) Hanst.	9		Sherk, in Lee 1962a
<i>argentea</i> Griseb.	18		Morley 1967
<i>arguta</i> Morton	18		Fussell 1958; Morley 1967
<i>asteroloma</i> (Wiehl.) L. Skog	9		Oliver & Skog 1981
<i>aureonitens</i> Hook.	9		Lee 1966a
<i>aureonitens</i> Hook.	18		Morley 1967
<i>X banksii</i> Lynch	18		Rogers 1954
<i>billbergiana</i> Beurl.	9		Oliver & Skog 1981
<i>billbergiana</i> Beurl. as <i>Columnnea percrassa</i> Morton	9		Lee 1962a
<i>billbergiana</i> Beurl. as <i>Columnnea percrassa</i> Morton	18		Morley 1967
<i>brevipila</i> Urban	18		Morley 1967
<i>brevipila</i> Urban	9		Lee 1964
<i>consanguinea</i> Hanst.		36	Morley 1967
<i>consanguinea</i> Hanst.	9		Sherk, in Lee 1962a
<i>crassifolia</i> Brong.	18		Fussell 1958; Morley 1967
<i>crassifolia</i> Brong. 'Stella Nova'	36		Morley 1967
<i>dissimilis</i> Morton	9		Lee 1966a
as <i>Columnnea translucens</i> Raymond			
<i>domingensis</i> (Urban) B. Morley as <i>Alloplectus domingensis</i> Urban	18		Rogers 1954; Ratter 1963
<i>X euphora</i> H. E. Moore	9		Fussell 1958
<i>X euphora</i> H. E. Moore	18		Morley 1967
<i>fawcettii</i> (Urban) Morton	9		Lee 1964
<i>fawcettii</i> (Urban) Morton	18		Morley 1967
<i>flaccida</i> Seem.	9		Lee & Greer 1964
<i>glabra</i> Oerst.	9		Eberle 1956; Sherk, in Lee 1962a
<i>gloriosa</i> Sprague	9		Eberle 1956; Eberle 1957a
<i>gloriosa</i> Sprague	18		Rogers 1954; Morley 1967
<i>gloriosa</i> Sprague var. <i>purpurea</i> Hort. ex Chitt.	9		Morley 1967
<i>grisebachiana</i> O. Kuntze as <i>Alloplectus grisebachianus</i> (O. Kuntze) Urban	18		Morley 1967

Taxon	n	2n	Reference
COLUMNNEA (continued)			
<i>harrisii</i> (Urban) Britt. ex Morton		18	Morley 1967
<i>hirsuta</i> Sw.		18	Morley 1967
<i>hirsutissima</i> Morton	9		Lee 1967
<i>hirta</i> Kl. & Hanst.		18	Morton 1963; Morley 1967
<i>hirta</i> Kl. & Hanst.	9		Eberle 1956; Eberle 1957a
<i>hirta</i> var. <i>mortonii</i> (Raymond) B. Morley	9		Lee 1962a
as <i>Columnea mortonii</i> Raymond			
<i>hispida</i> Sw.	9		Lee 1966a
<i>hispida</i> Sw.		18	Morley 1967
<i>illepida</i> H. E. Moore	9		Sherk, in Moore 1960
<i>jamaicensis</i> Urban		18	Morley 1967
<i>jamaicensis</i> Urban	9		Lee 1967
“ <i>kewensis</i> Hort.”	9		Eberle 1956
‘ <i>Kewensis</i> Variegata’		18	Morley 1967
<i>kucyniakii</i> Raymond	9		Lee 1964
<i>kucyniakii</i> Raymond	9		Lee 1962b
as <i>Columnea</i> sp. G-526			
<i>lepidocaula</i> Hanst.		18	Rogers, in Lee 1962a; Morley 1967
<i>linearis</i> Oerst.		18	Fussell 1958; Davidse 1981
<i>magnifica</i> Kl. ex Oerst.	9		Lee 1966a
<i>microphylla</i> Kl. & Hanst.		18	Morley 1967
<i>microphylla</i> Kl. & Hanst.	9		Eberle 1956
<i>minor</i> (Hook.) Hanst.	9		Lee 1962a
<i>minor</i> (Hook.) Hanst.	9		Lee 1962a
as <i>Columnea teuscheri</i> (Morton)			
H. E. Moore			
<i>moorei</i> Morton	9		Sherk, in Moore 1960
<i>moorei</i> Morton		18	Fussell, in Lee 1962a
as <i>Columnea</i> sp. II			
<i>nicaraguensis</i> Oerst.	9		Sherk, in Lee 1962a
<i>oerstediana</i> Kl. ex Oerst.		18	Fussell 1958; Morley 1967
<i>pectinata</i> Morton	9		Lee 1967
<i>pichinchensis</i> Hanst.		18	Morley 1967
<i>picta</i> Karst. ? (sic)		36	Morley 1967
<i>pilosissima</i> Standl.		36	Morton 1963
<i>pilosissima</i> Standl.		18	Fussell 1958
<i>proctorii</i> Stearn		18	Morley, in Stearn 1969
<i>purpurata</i> Hanst.		18	Morley 1967
<i>querceti</i> Oerst.	9		Sherk, in Lee 1962a; Davidse 1970
<i>rubricaulis</i> Standl.	9		Lee 1967
<i>rutilans</i> Sw.	9		Morley 1972
<i>rutilans</i> Sw.		18	Morley 1967; Morley 1971
<i>sanguinea</i> (Pers.) Hanst.	18	36	Fussell 1958
<i>sanguinolenta</i> (Kl. ex Oerst.) Hanst.	9		Sherk, in Lee 1962a
<i>scandens</i> L.	9		Lee 1966b
<i>scandens</i> var. <i>fendleri</i> (Sprague) B. Morley		18	Morley 1967
as <i>Columnea fendleri</i> Sprague			
<i>scandens</i> L. ? (sic)		18	Morley 1967
<i>schiedeana</i> Schlecht.		18	Rogers 1954; Morley 1967
<i>schiedeana</i> Schlecht.	9		Eberle 1956; Eberle 1957a
<i>subcordata</i> Morton	9		Lee 1967
<i>tulae</i> Urban ‘Flava’		18	Fussell 1958; Morley 1967
<i>urbanii</i> Stearn		18	Morley 1967; Morley 1971

Taxon	n	2n	Reference
COLUMNEA (continued)			
<i>verecunda</i> Morton	9		Sherk, in Lee 1962a
<i>verecunda</i> Morton		18	Rogers, in Lee 1962a
× <i>vedrariensis</i> Hort. Vilm. ex Mottet		18	Morley 1967
× <i>vilmoriana</i> Meunniß.		18	Morley 1967
“ <i>wilsonii</i> Wiehler”		18	Morley 1972
× <i>woodii</i> H. E. Moore		18	Morley 1967
<i>zebrina</i> Raymond	9		Lee 1967
CONANDRON			
<i>ramondioides</i> Sieb. & Zucc.	16	32	Ratter & Prentice 1964
CORYTOPLECTUS			
<i>capitatus</i> (Hook.) Wiehl. as <i>Alloplectus capitatus</i> Hook.	9		Eberle 1956
<i>congestus</i> (Lind. ex Hanst.) Wiehl.	9		Davidse 1981
<i>congestus</i> (Lind. ex Hanst.) Wiehl. as <i>Alloplectus zamorensis</i> Linden & Andre	9		Wiehler 1972
<i>congestus</i> (Lind. ex Hanst.) Wiehl. as <i>Alloplectus</i> sp. G-244	9		Lee 1962b
<i>schlimii</i> (Planch. & Lind.) Wiehl. as <i>Alloplectus schlimii</i> Planch. & Lind.	9		Lee 1962b
<i>speciosus</i> (Poepp.) Wiehl. as <i>Alloplectus speciosus</i> Poepp.	9		Lee 1962a
<i>speciosus</i> (Poepp.) Wiehl. as <i>Alloplectus vittatus</i> Lind. & Andre	9		Eberle 1956; Eberle 1957a
CYRTANDRA			
nr. <i>axillaris</i> C. B. Cl.		34	Ratter & Prentice 1964
<i>cordifolia</i> Gaud.	17	34	Storey, in St. John 1966
<i>ferruginosa</i> St. John & Storey		34	Storey, in St. John 1966
<i>garnotiana</i> Gaud.		34	Storey, in St. John 1966
<i>grandiflora</i> Gaud.	17	34	Storey, in St. John 1966
<i>latebrosa</i> Hilleb.		34	Storey, in St. John 1966
<i>mooreaensis</i> Gillett as <i>Cyrtandra</i> nr. <i>biflora</i> J. R. & G. Forster	17	34	Ratter & Prentice 1967; Ratter 1975
aff. <i>multibracteata</i> C. B. Cl	17		Milne 1975
<i>oblongifolia</i> (Bl.) C. B. Cl.	17		Ratter & Prentice 1967
<i>oblongifolia</i> (Bl.) C. B. Cl.		34	Ratter & Prentice 1964
<i>paludosa</i> Gaud.	17		Ratter & Prentice 1967
<i>paludosa</i> Gaud.		34	Storey, in St. John 1966
<i>pendula</i> Bl.		34	Ratter & Prentice 1964
		(35 & 36)	
<i>propinqua</i> C. N. Forbes		34	Storey, in St. John 1966
<i>radiciflora</i> C. B. Cl.		34	Ratter & Prentice 1967
<i>sandei</i> DeVries		34	Milne 1975
<i>sandwicensis</i> (Lev.) St. John & Storey	17	34	Storey, in St. John 1966
<i>sororia</i> Schltr.	17		Milne 1975
<i>splendens</i> C. B. Cl.		34	Ratter & Prentice
		(21, ±24)	
nr. <i>splendens</i> C. B. Cl.		34	Ratter & Prentice 1964
		(27, 36)	
<i>stupantha</i> St. John & Storey	17	34	Storey, in St. John 1966
<i>stupantha</i> St. John & Storey	17		Carr 1978
spp. from New Guinea		32	Borgmann 1964

Taxon	n	2n	Reference
CYRTANDRA (continued)			
sp. from New Guinea C4376	17		Ratter & Prentice 1967
sp. from Solomon Is. C3782		34	Ratter 1963
DIASTEMA			
<i>maculatum</i> Benth.	13		Lee & Greer 1963
<i>quinquevulnatum</i> Planch. & Lind.	13		Lee 1966a
<i>racemiferum</i> Benth. as <i>Diastema rupestre</i> T. S. Brandeg.	13		Lee 1966b
<i>vexans</i> H. E. Moore		26	Fussell 1958; Wiehler 1975b
DICHILOBOEA			
<i>speciosa</i> (Ridl.) Stapf	18		Ratter & Prentice 1967
DIDISSANDRA			
<i>lanuginosa</i> C. B. Cl.	10		Mehra & Vasudevan 1972
DIDYMOCARPUS			
<i>alternans</i> Ridl.	18		Ratter & Milne 1970
<i>biserratus</i> Barnett	28		Milne 1975
aff. <i>bombycinus</i> Ridl.		18	Ratter & Milne 1970
<i>citrinus</i> Ridl.	11		Ratter & Milne 1970
<i>corchorifolius</i> R. Br.	22		Ratter & Milne 1970
<i>flavescens</i> Ridl.	9		Ratter & Milne 1970
<i>floccosus</i> Thwaites	16		Milne 1975
<i>innominatus</i> B. L. Burtt	16	32	Ratter & Prentice 1967
<i>malayanus</i> Hook. f.	9		Ratter & Milne 1970
<i>pedicellatus</i> R. Br.	18		Mehra & Vasudevan 1972
<i>pedicellatus</i> R. Br.		24	Malla et al. 1974
<i>praeteritus</i> B. L. Burtt & Davidson	12		Ratter & Prentice 1964
<i>pumilus</i> Ridl.	19		Ratter & Milne 1970
<i>purpureus</i> Ridl.	16		Ratter & Prentice 1967
<i>reticulosus</i> C. B. Cl.	9		Ratter & Milne 1970
<i>rodgeri</i> var. <i>siamensis</i> W. W. Smith	14		Ratter & Milne 1970
<i>siamensis</i> Barnett		54	Ratter & Prentice 1964
<i>tomentosus</i> Wight	27		Thathachar 1942
<i>tomentosus</i> Wight	±45	±90	Ratter & Prentice 1967
sp. from Thailand C4304		28	Ratter & Prentice 1967
DRYMONIA			
<i>alloplectoides</i> Hanst.	9		Lee 1962a; Wiehler 1972
as <i>Drymonia</i> sp. G-365			
<i>coccinea</i> (Aubl.) Wieh.		18	Gadella & Kliphuis 1964
as <i>Alloplectus coccineus</i>			
var. <i>fusco-maculatus</i> Leeuw.			
<i>macrantha</i> (J. D. Sm.) D. Gibbs.	9		Wiehler 1972
<i>macrantha</i> (J. D. Sm.) D. Gibbs.	9		Lee 1962a
as <i>Drymonia</i> sp. G-196			
<i>macrophylla</i> (Oerst.) H. E. Moore		18	Rogers, in Lee 1962a
<i>mollis</i> Oerst.		18	Ratter 1963
<i>parviflora</i> Hanst.	9		Lee 1966b
<i>serrulata</i> (Jacq.) Mart.		18	Ratter 1963
<i>serrulata</i> (Jacq.) Mart.	9		Lee 1964; Wiehler 1972
as <i>Drymonia</i> sp. G-747			
<i>stenophylla</i> (J. D. Sm.) H. E. Moore	9		Lee 1962a
<i>strigosa</i> (Oerst.) Wieh.	9		Wiehler 1972
sp. G-102	9		Fussell 1958; Lee 1962a
sp. ML61-2000		18	Ratter 1963

Taxon	n	2n	Reference
EPISCIA			
<i>cupreata</i> (Hook.) Hanst.		18	Rogers 1954; Ratter 1963
<i>cupreata</i> (Hook.) Hanst.	9		Eberle 1956
<i>cupreata</i> (Hook.) Hanst.		18	Fussell 1958
‘Emerald Queen’			
<i>cupreata</i> (Hook.) Hanst.		18	Rogers 1954
‘Silver Sheen’			
<i>cupreata</i> (Hook.) Hanst.		18	Rogers 1954
‘Splendens’			
<i>cupreata</i> (Hook.) Hanst.		18	Rogers 1954
‘Viridifolia’			
<i>dianthiflora</i> H. E. Moore & R. G. Wilson	9		Fussell 1958
<i>lilacina</i> Hanst.		18	Rogers 1954
<i>punctata</i> (Lindl.) Hanst.		18	Rogers 1954
<i>punctata</i> (Lindl.) Hanst.	9		Eberle 1956
<i>reptans</i> Mart.		18	Rogers, in Lee 1962a
<i>reptans</i> Mart.		18	Rogers 1954
as <i>Episcia fulgida</i> (Lind.) Hook. f.			
<i>reptans</i> Mart.		18	Fussell 1958
‘Lady Lou’			
‘Tetra’	9		Fussell 1958
EUCODONIA			
<i>andrieuxii</i> (DC.) Wiehl.		12	Cooke, in Lee 1962a;
as <i>Achimenes andrieuxii</i> DC.			Cooke & Lee 1966
<i>verticillata</i> (Mart. & Gal.) Wiehl.	12		Wiehler 1976
<i>verticillata</i> (Mart. & Gal.) Wiehl.	24		Cooke & Lee 1966;
as <i>Achimenes bella</i> Morton			Lee 1966b
<i>verticillata</i> (Mart. & Gal.) Wiehl.	12		Cooke, in Lee 1962a;
as <i>Achimenes ehrenbergii</i> (Hanst.)			Cooke & Lee 1966
H., E. Moore			
<i>verticillata</i> (Mart. & Gal.) Wiehl.		±24	Fussell 1958
as <i>Achimenes ehrenbergii</i> (Hanst.)			
H. E. Moore			
FIELDIA			
<i>australis</i> F. v. Muell.		±80	Ratter 1963
GESNERIA			
<i>acaulis</i> L.	14		Davidse 1981
<i>acaulis</i> L. var. <i>acaulis</i>	14		Lee 1966a; Skog 1976
<i>acaulis</i> var. <i>glabrata</i> L. Skog	14		Skog 1976
<i>christii</i> Urban	14		Lee 1966a
<i>citrina</i> Urban	14		Lee 1966a
<i>cuneifolia</i> (DC.) Fritsch	28		Lee 1964
<i>exserta</i> Sw.	14		Lee 1966b
<i>jamaicensis</i> Britt.	14		Lee 1967
<i>pauciflora</i> Urban	14		Lee 1966a
<i>pedunculosa</i> (DC.) Fritsch	14		Lee 1964
as <i>Gesneria albiflora</i> (Decne.) Fritsch			
<i>pumila</i> Sw.	14		Lee 1966a
<i>reticulata</i> (Griseb.) Urban	14		Lee 1966a
as <i>Gesneria cuneifolia</i> vel aff.			
“El Yunque Variant”			
<i>ventricosa</i> Sw.	14		Lee 1966b
<i>viridiflora</i> subsp. <i>sintenisii</i> (Urban) L. Skog	7		Nevling 1969
as <i>Gesneria sintenisii</i> Urban			

Taxon	<i>n</i>	<i>2n</i>	Reference
GLOXINIA			
<i>gymnostoma</i> Griseb.	13		Wiehler 1972
<i>lindeniana</i> (Regel) Fritsch		26	Rogers, in Lee 1962a
as <i>Kohleria lindeniana</i> (Regel)			
H. E. Moore			
<i>lindeniana</i> (Regel) Fritsch	13		Wiehler 1976
<i>lindeniana</i> (Regel) Fritsch	13		Eberle 1956
as <i>Tydaea lindeniana</i> Regel			
<i>nematanthodes</i> (O. Kuntze) Wiehl.	13		Wiehler 1972
<i>perennis</i> (L.) Fritsch		26	Rogers 1954
<i>perennis</i> (L.) Fritsch	13		Wiehler 1976
<i>perennis</i> (L.) Fritsch	13		Eberle 1956
as <i>Gloxinia maculata</i> L'Hér.			
<i>sylvatica</i> (Kunth) Wiehl.	13		Lee 1966b
as <i>Seemannia latifolia</i> Fritsch			
<i>sylvatica</i> (Kunth) Wiehl.	13		Lee 1962b
as <i>Seemannia sylvatica</i> (Kunth) Hanst.			
<i>sylvatica</i> (Kunth) Wiehl.	13		Wiehler 1975b; Wiehler 1976
<i>sylvatica</i> (Kunth) Wiehl. 'Yellowbird'	13		Lee, in Moore 1963
as <i>Seemannia sylvatica</i> (Kunth) Hanst.			
'Yellowbird'			
× GOMIOCHARIS			
<i>calliantha</i> O. Schwarz		34	Lepper & Jungnickel 1980
HABERLEA			
<i>rhodopensis</i> Friv.		48	Contandriopoulos 1966
<i>rhodopensis</i> Friv.	22		Lepper 1970
<i>rhodopensis</i> Friv.		38	Borhidi 1968
<i>rhodopensis</i> Friv.		44	Milne 1975
HEMIBOEA			
<i>bicornuta</i> (Hay.) Ohwi	18		Hsu 1968; Ratter 1975
as <i>Chirita bicornuta</i> Hay.			
HEPPIELLA			
<i>ampla</i> Hanst.	13		Wiehler 1972
<i>viscida</i> (Lindl. & Paxt.) Fritsch	26		Wiehler 1971; Wiehler 1972; Wiehler 1976
HEXATHECA			
<i>fulva</i> C. B. Cl.	17		Ratter & Milne 1970
JANKAEA			
<i>heldreichii</i> (Boiss.) Boiss.		56	Contandriopoulos 1966
KOELLIKERIA			
<i>erinoides</i> (DC.) Mansf.	13		Fussell 1958; Wiehler 1975b; Wiehler 1976
KOHLERIA			
<i>allenii</i> Standl. & L. O. Wms.	13		Wiehler 1975b
<i>bella</i> Morton	13		Lee 1967
<i>bogotensis</i> (Nichols.) Fritsch	13		Fussell 1958; Wiehler 1975b
<i>bogotensis</i> (Nichols.) Fritsch	13		Eberle 1956
as <i>Isoloma bogotense</i> Nichols.			

Taxon	n	2n	Reference
KOHLERIA (continued)			
<i>bogotensis</i> (Nichols.) Fritsch as <i>Isoloma pictum</i> Hort.	13		Eberle 1956; Eberle 1957a; Lee 1962a
'Cecilia'	13		Fussell 1958
<i>digitaliflora</i> (Lind. & Andre) Fritsch	13		Wiehler 1975b
<i>eriantha</i> (Benth.) Hanst. (?) as <i>Isoloma hirsutum</i> Hort.	13		Eberle 1956; Eberle 1957a; Lee 1962a
<i>eriantha</i> (Benth.) Hanst.	13		Wiehler 1975b
'Eriantha Hybrid'		26	Rogers 1954
<i>hirsuta</i> (Kunth) Regel	13		Davidse 1971; Davidse 1981; Wiehler 1972
<i>lanata</i> Lem.	13		Wiehler 1975b; Wiehler 1976
<i>magnifica</i> (Planch. & Lind.) H. E. Moore	13		Wiehler 1975b
<i>peruviana</i> Fritsch	13		Wiehler 1972
'refulgens'	12-14		Hietz, in Tischler 1927
'Sciadotydaea Hybrid'		26	Rogers 1954
'speciosa'	13		Eberle 1956; Lee 1962a
as <i>Isoloma speciosa</i> (sic)			
<i>spicata</i> (Kunth) Oerst.	13		Davidse 1970; Wiehler 1975b
<i>spicata</i> (Kunth) Oerst.		26	Rogers 1954
<i>spicata</i> (Kunth) Oerst.	13		Lee 1967
as <i>Kohleria longifolia</i> Hanst.			
<i>spicata</i> (Kunth) Oerst.	13		Lee 1967
as <i>Kohleria schiedeana</i> Hanst.			
<i>tubiflora</i> (Cav.) Hanst.	13		Davidse 1970; Davidse 1981; Lee 1962a; Wiehler 1975b
<i>villosa</i> (Fritsch) Wiehl. as <i>Kohleria platylomata</i> (J. D. Sm.) Wiehl.	13		Wiehler 1975b
sp.	13		Lee 1962a
LOXOCARPUS			
<i>conicapsularis</i> (C. B. Cl.) B. L. Burtt	9		Milne 1975
LYSIONOTUS			
<i>serratus</i> D. Don		32	Fussell 1958;
<i>serratus</i> D. Don		32	Fussell 1958; Ratter & Prentice 1964
MITARIA			
<i>coccinea</i> Cav.		±74	Ratter 1963
MONOPHYLLAEA			
<i>horsfieldii</i> R. Br.	10		Ratter & Prentice 1967
<i>horsfieldii</i> R. Br.	16	32	Oehlkers 1923
MONOPYLE			
<i>maxonii</i> Morton	13		Lee 1966a; Wiehler 1976
MOUSSONIA			
<i>deppeana</i> (Schlecht. & Cham.) Hanst.	11		Wiehler 1975b
<i>elegans</i> Dcne.	11		Wiehler 1976
<i>elegans</i> Dcne.	11		Lee 1964; Davidse 1970
as <i>Kohleria elegans</i> (Dcne.) Loes.			
<i>hirsutissima</i> (Morton) Wiehl. as <i>Kohleria hirsutissima</i> Morton	11		Lee 1967

Taxon	n	2n	Reference
MOUSSONIA (continued)			
<i>hirsutissima</i> (Morton) Wiehl.	11		Wiehler 1976
<i>septentrionalis</i> (D. Denh.) Wiehl.	11		Wiehler 1975b
<i>strigosa</i> (Morton) Wiehl.	11		Wiehler 1975b
sp. G-828 from Guatemala	11		Wiehler 1975b
NAUTILOCALYX			
<i>bullatus</i> (Lem.) Sprague		18	Rogers 1954
<i>bullatus</i> (Lem.) Sprague as <i>Episcia tesselata</i> Hort. ex Lem.	9		Eberle 1956; Eberle 1957b
<i>cataractarum</i> Wiehl.	9		Wiehler 1975e
<i>forgetii</i> (Sprague) Sprague	9		Eberle 1956
<i>lynchii</i> (Hook. f.) Sprague		36	Rogers 1954
<i>lynchii</i> (Hook. f.) Sprague as <i>Alloplectus lynchii</i> Hook. f.	17-18		Eberle 1956
<i>melittifolius</i> (L.) Wiehl. as <i>Episcia melittifolia</i> (L.) Mart.	9		Lee 1962a
<i>membranaceus</i> (Morton) Wiehl.	9		Wiehler 1976
<i>panamensis</i> (Seem.) Seem.	9		Wiehler 1972
<i>picturatus</i> L. Skog as <i>Nautilocalyx</i> sp. G-938	9		Lee 1966b; Skog 1974
<i>villosus</i> (Kunth & Bouché) Sprague	9		Lee 1966a; Wiehler 1976
sp. G-514 from Peru	9		Lee 1962a
NEGRIA			
<i>rhabdothamnoides</i> F. v. Muell.	±45	±90	Ratter & Prentice 1967
NEMATANTHUS			
<i>fissus</i> (Vell.) L. Skog as <i>Hypocyrtta selloana</i> Kl. & Hanst.	8		Lee 1962a
<i>fissus</i> (Vell.) L. Skog as <i>Hypocyrtta selloana</i> Kl. & Hanst.		16	Ratter 1963; Morley 1967
<i>fritschii</i> Hoechne as <i>Nematanthus</i> sp. G-612 and <i>Nematanthus fluminensis</i> Hort.	8		Lee 1962b; Lee & Greal 1963
“ <i>glabra</i> ” Hook. as <i>Hypocyrtta glabra</i> Hook.		16	Ratter 1963
<i>gregarius</i> D. Denh. as <i>Hypocyrtta radicans</i> Kl. & Hanst.		16	Ratter 1963
<i>hirtellus</i> (Schott) Wiehl.	8		Wiehler 1972
<i>longipes</i> DC.		16	Fussell 1958; Morley 1967; Ratter 1963
<i>nervosus</i> (Fritsch) H. E. Moore as <i>Hypocyrtta nervosa</i> Fritsch	8		Lee 1964
<i>perianthomegus</i> (Vell.) H. E. Moore	8		Oliver & Skog 1981
<i>perianthomegus</i> (Vell.) H. E. Moore as <i>Hypocyrtta perianthomega</i> (Vell.) Tenore	8		Lee 1964
<i>strigillosus</i> (Mart.) H. E. Moore as <i>Hypocyrtta strigillosa</i> Mart.		16	Ratter 1963
<i>wettsteinii</i> (Fritsch) H. E. Moore	8		Oliver & Skog 1981
<i>wettsteinii</i> (Fritsch) H. E. Moore as <i>Hypocyrtta wettsteinii</i> Fritsch	8		Lee & Greal 1963
NEOMORTONIA			
<i>nummularia</i> (Hanst.) Wiehl. as <i>Alloplectus nummularia</i> (Hanst.) Wiehl.	9		Wiehler 1972
<i>nummularia</i> (Hanst.) Wiehl. as <i>Hypocyrtta nummularia</i> Hanst.		18	Rogers 1954
<i>rosea</i> Wiehl.	9		Wiehler 1975a

Taxon	n	2n	Reference
NIPHAEA			
<i>oblonga</i> Lindl.	11		Lee 1964
OPITHANDRA			
<i>primuloides</i> (Miq.) B. L. Burtt		34	Fussell 1958; Ratter 1963
ORNITHOBOEA			
<i>wildeana</i> Craib	±16		Ratter & Prentice 1967
PALIAVANA			
<i>prasina</i> (Ker-Gawl.) Benth.	13		Wiehler 1972
<i>tenuiflora</i> Mansf.	13		Wiehler 1972
sp.	13		Lee 1966a
PARABOEA			
<i>capitata</i> Ridl.	18		Ratter & Prentice 1967
<i>vulpina</i> Ridl.		36	Ratter & Milne 1970
<i>vulpina</i> Ridl.		±36	Ratter & Prentice 1967
PARADRYMONIA			
<i>lurida</i> (Morton & Raymond) Wiehl. as <i>Episcia</i> (?) <i>lineata</i> G-359	9		Lee 1962a
PETROCOSMEA			
<i>kerrii</i> Craib		34	Fussell 1958; Ratter 1963
<i>parryorum</i> C. E. C. Fisch.		34	Fussell 1958
<i>parryorum</i> C. E. C. Fisch.	17		Ratter & Prentice 1967
PHEIDONOCARPA			
<i>corymbosa</i> (Sw.) L. Skog as <i>Heppiella corymbosa</i> (Sw.) Urban	14		Lee 1966a
PHINAEA			
<i>multiflora</i> Morton	13		Lee & Grear 1963
<i>repens</i> (J. D. Sm.) Soler.	±26		Lee 1966b
PLATYSTEMMA			
<i>violoides</i> Wall.	20		Mehra & Vasudevan 1972
RAMONDA			
<i>myconi</i> (L.) Rchb.	48		Contandriopoulos 1966
<i>myconi</i> (L.) Rchb.	24		Lepper 1970; Ratter & Prentice 1964
<i>myconi</i> (L.) Rchb. 'Alba'	48		Ratter & Prentice 1964
<i>myconi</i> (L.) Rchb. 'Wisley Rose'	48		Ratter 1963; Ratter & Prentice 1964
<i>nathaliae</i> Pancić & Petrović	48		Contandriopoulos 1966
<i>nathaliae</i> Pancić & Petrović	48		Ratter 1963
<i>nathaliae</i> Pancić & Petrović	±18		Glisic 1924
<i>serbica</i> Pancić	±96		Contandriopoulos 1966
<i>serbica</i> Pancić	±36		Glisic 1924
RHABDOTHAMNUS			
<i>solandri</i> A. Cunn.	37		Hair & Beuzenberg 1960
<i>solandri</i> A. Cunn.		±74	Ratter 1963

TAXON	n	2n	REFERENCE
RHYNCHOGLOSSUM			
<i>gardneri</i> Theobald & Grupe	10		Ratter & Prentice 1967;
as <i>Rhynchoglossum notonianum</i> (Wall.)			Ratter 1975
B. L. Burtt			
<i>notonianum</i> (Wall.) B. L. Burtt		20	Ratter 1975
<i>notonianum</i> (Wall.) B. L. Burtt	10		Eberle 1956; Eberle 1957a
as <i>Klugia notoniana</i> Wall.			
<i>obliquum</i> Bl.	18		Vasudevan 1976
<i>obliquum</i> Bl.	21		Ratter & Prentice 1967;
as <i>Rhynchoglossum</i> sp. from Thailand			Ratter 1975
<i>papuae</i> Schltr.	27		Ratter & Prentice 1967
RHYNCHOTECHUM			
<i>discolor</i> (Maxim.) B. L. Burtt		20	Ratter 1963
RHYTIDOPHYLLUM			
<i>auriculatum</i> Hook.	14		Lee 1964; Davidse 1971
<i>berteroanum</i> Mart.	14		Oliver & Skog 1981
<i>leucomallon</i> Hanst.	14		Lee 1967
<i>tomentosum</i> (L.) Mart.	14		Davidse 1981
<i>tomentosum</i> (L.) Mart.	14		Eberle 1956
as <i>Gesneria tomentosa</i> L.			
RUFODORSIA			
<i>intermedia</i> Wiehl.	9		Wiehler 1975c
<i>major</i> Wiehl.	9		Wiehler 1975c
<i>minor</i> Wiehl.	9		Wiehler 1975c
<i>minor</i> Wiehl.	9		Ratter 1963
as <i>Episcia</i> sp. FP60 3121			
SAINTPAULIA			
'Amazon'		60	Ehrlich, in Lee 1962a
'Blue Amazon'		60	Wilson 1951; Wilson 1955
'Blue Boy'	15	30	Wilson 1951; Wilson 1955
'Blue Girl'		30	Wilson 1951; Wilson 1955
'Blue Leatherneck'	15		Wilson 1951; Wilson 1955
'Blush'	15	30	Wilson 1951; Wilson 1955
<i>brevipilosa</i> B. L. Burtt		30	Milne 1975
'Calico'	15	30	Ehrlich 1956
<i>confusa</i> B. L. Burtt	15		Fussell 1958
<i>confusa</i> B. L. Burtt		28	Holzer 1952
as <i>Saintpaulia kewensis</i> Hort.			
<i>difficilis</i> B. L. Burtt	15		Milne 1975
<i>diplotricha</i> B. L. Burtt		30	Milne 1975
'Double'		30	Wilson 1951; Wilson 1955
'duPont Lavender Pink'	30	60	Ehrlich 1956
<i>grandifolia</i> B. L. Burtt	15		Milne 1975
<i>grotei</i> Engl.		30	Cox & Roberts 1950; Wilson 1951; Wilson 1955; Ratter 1963
<i>intermedia</i> B. L. Burtt		30	Ratter 1963
<i>ionantha</i> Wendl.		28	Holzer 1952
<i>ionantha</i> Wendl.	14		Sugiura 1931; Sugiura 1936b
<i>ionantha</i> Wendl.		30	Wilson 1951; Wilson 1955; Ehrlich, in Lee 1962a

TAXON	n	2n	REFERENCE
SAINTPAULIA (continued)			
<i>ionantha</i> Wendl. 'Ionantha'		30	Ehrlich 1958
<i>ionantha</i> Wendl. 'Ionantha Amazon'		60	Ehrlich 1958
<i>magungensis</i> E. Roberts	15		Fussell 1958
<i>magungensis</i> E. Roberts	15		Fussell 1958
as <i>Saintpaulia amaniensis</i> E. Roberts			
<i>orbicularis</i> B. L. Burtt	15		Fussell 1958; Milne 1975
<i>pendula</i> B. L. Burtt		30	Ratter 1963
'Pink Amazon'		30	Wilson 1951; Wilson 1955
'Pink Beauty'		30	Wilson 1951; Wilson 1955
'Plum'	15	30	Wilson 1951; Wilson 1955
<i>shumensis</i> B. L. Burtt	15		Fussell 1958
'Snow Prince'	15		Fussell 1958
'Snow Prince Supreme'	15		Fussell 1958
'Storm King'	15		Wilson 1951; Wilson 1955
<i>teitensis</i> B. L. Burtt		30	Ratter 1963
<i>tongwensis</i> B. L. Burtt		30	Wilson 1951; Wilson 1955
<i>velutina</i> B. L. Burtt	15		Milne 1975
'White Lady'	15		Wilson 1951; Wilson 1955
sp. from Tanganyika	15		Fussell 1958
SARMIENTA			
<i>repens</i> Ruiz & Pavón		±74	Ratter 1963
SINNINGIA			
<i>aggregata</i> (Ker-Gawl.) Wiehl.	13		Clayberg 1967
as <i>Rechsteineria aggregata</i> (Ker-Gawl.)			
O. Kuntze			
<i>barbata</i> (Nees & Mart.) Nichols.		26	Fussell 1958
<i>barbata</i> (Nees & Mart.) Nichols.	13		Ratter 1963
<i>canescens</i> (Mart.) Wiehl.	13		Clayberg 1967
as <i>Rechsteineria leucotricha</i> Hoehne			
<i>cardinalis</i> (Lehm.) H. E. Moore	13		Clayberg 1967
as <i>Rechsteineria cardinalis</i> (Lehm.) O. Kuntze.			
<i>cardinalis</i> (Lehm.) H. E. Moore	13		Eberle 1956
as <i>Corytholoma cardinalis</i> (Lehm.) Fritsch			
<i>cardinalis</i> (Lehm.) H. E. Moore	14		Sugiura 1936a;
as <i>Corytholoma cardinalis</i> (Lehm.) Fritsch			Sugiura 1936b
<i>concinna</i> (Hook.) Nichols.	13		Clayberg 1967
<i>discolor</i> (Decne. ex Hanst.) Sprague	13		Clayberg 1967
<i>eumorpha</i> H. E. Moore	13		Clayberg 1967
<i>hirsuta</i> (Lindl.) Nichols.	13		Clayberg 1967
<i>hirsuta</i> (Lindl.) Nichols.		26	Ratter 1963
<i>incarnata</i> (Aubl.) D. Denh.	13		Davidse 1981
<i>incarnata</i> (Aubl.) D. Denh.	13		Fussell 1958;
as <i>Rechsteineria warszewiczii</i>			Clayberg 1967;
(Bouché & Hanst.) O. Kuntze			Davidse 1971
<i>macropoda</i> (Sprague) H. E. Moore	13		Eberle 1956
as <i>Corytholoma macropodium</i> Sprague			
<i>macropoda</i> (Sprague) H. E. Moore	13		Clayberg 1967
as <i>Rechsteineria cyclophyllea</i> Hjelm.			
<i>macropoda</i> (Sprague) H. E. Moore	13		Clayberg 1967
as <i>Rechsteineria lineata</i> Hjelm.			
<i>macrorrhiza</i> (Dum.) Wiehl.	13		Clayberg 1967
as <i>Rechsteineria macrorrhiza</i> (Dum.) O. Kuntze			
<i>magnifica</i> (Otto & Dietr.) Wiehl.	13		Clayberg 1967
as <i>Rechsteineria magnifica</i>			
(Otto & Dietr.) O. Kuntze			

TAXON	n	2n	REFERENCE
SINNINGIA (continued)			
<i>pusilla</i> (Mart.) Baill.	13		Eberle 1956; Clayberg 1967
<i>regina</i> Sprague	13		Lee 1966a; Clayberg 1967
<i>regina</i> Sprague	±13		Eberle 1956
<i>sceptrum</i> (Mart.) Wiehl. as <i>Rechsteineria lindleyi</i> (Hook.) Fritsch	13		Fussell 1958
<i>sceptrum</i> (Mart.) Wiehl. as <i>Corytholoma warmingii</i> (Hiern) Tours.	13		DiFulvio 1967
<i>schiffneri</i> Fritsch	13		Lee 1966b; Clayberg 1967
<i>sellouii</i> (Mart.) Wiehl. (?) as <i>Rechsteineria sellouii</i> (Mart.) O. Kuntze	13		Clayberg 1967
<i>speciosa</i> (Lodd.) Hiern	13		Eberle 1956
<i>speciosa</i> (Lodd.) Hiern cultivar		26	Rogers 1954
<i>speciosa</i> (Lodd.) Hiern 'Firefly'	28		Sugiura 1931; Sugiura 1936b
<i>speciosa</i> (Lodd.) Hiern 'Fire King'	13		Clayberg 1967
<i>speciosa</i> (Lodd.) Hiern 'Monarch'		28	Sugiura 1931; Sugiura 1936b
<i>speciosa</i> (Lodd.) Hiern var.	13		Clayberg 1967
<i>speciosa</i> (Lodd.) Hiern (Fyfiana Group) as <i>Sinningia "hybrida</i> Hort."	13		Eberle 1956; Lee 1962a
<i>tubiflora</i> (Hook.) Fritsch		28	Rogers 1954
<i>tubiflora</i> (Hook.) Fritsch		26	Clayberg 1967
<i>verticillata</i> (Vell.) H. E. Moore as <i>Rechsteineria verticillata</i> (Vell.) L. B. Sm. sp. (as <i>X Gloxinera</i> "sp.")	13		Clayberg 1967
			Fussell 1958
SMITHIANTHA			
'Cathedral'	24		Lee & Grear 1963
<i>cinnabrina</i> (Lindl.) O. Kuntze		24	Rogers 1954
<i>cinnabrina</i> (Lindl.) O. Kuntze as <i>Smithiantha fulgida</i> (Ortg.) Voss ex Siebert & Voss	12		Lee 1962a
'Exoniensis'	12		Lee 1962a
'Golden King'	12		Fussell 1958
<i>multiflora</i> (Mart. & Gal.) Fritsch		24	Fussell 1958
<i>multiflora</i> (Mart. & Gal.) Fritsch	12		Wiehler 1975b
'Santa Barbara'	12		Lee & Grear 1963
<i>zebrina</i> (Paxt.) O. Kuntze		24	Rogers 1954; Pai 1964
<i>zebrina</i> (Paxt.) O. Kuntze as <i>Naegelia zebrina</i> (Paxt.) Regel	12		Sugiura 1931; Sugiura 1936b; Eberle 1956
SOLENOPHORA			
<i>calycosa</i> J. D. Sm.	10		Davidse 1970
<i>insignis</i> (Mart. & Gal.) Hanst.	10		Lee 1967; Wiehler 1975b
<i>purpusii</i> T. S. Brandeg.	10		Lee 1967
sp. G-911 ("tuxtla")	10		Lee 1966b; Wiehler 1975b
sp. G-893	10		Lee 1966b
STREPTOCARPUS			
<i>baudertii</i> L. L. Britten	16		Ratter & Milne 1970
<i>caeruleus</i> Hilliard & B. L. Burtt	16		Ratter & Milne 1970
<i>caulescens</i> Vatke	15		Ratter 1963; Ratter & Milne 1970
<i>caulescens</i> Vatke var. <i>pallescens</i> Engl.	15		Milne 1975
<i>caulescens</i> Vatke		30	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>confusus</i> Hilliard	16		Ratter & Prentice 1967

Taxon	n	2n	Reference
STREPTOCARPUS (continued)			
<i>cooksonii</i> B. L. Burtt	16		Ratter & Prentice 1967
<i>cyanandrus</i> B. L. Burtt	16		Ratter & Prentice 1967
<i>cyaneus</i> S. Moore		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>cyaneus</i> S. Moore	16		Ratter & Prentice 1967
<i>cyaneus</i> S. Moore		32	Lawrence, in Darlington & Janaki Ammal 1945
as <i>Streptocarpus polackii</i> B. L. Burtt			
<i>davyi</i> S. Moore	16		Ratter & Prentice 1967
<i>decipiens</i> Hilliard & B. L. Burtt	16		Ratter & Milne 1970
<i>denticulatus</i> Turrill	16		Ratter & Prentice 1967
<i>dunnii</i> Mast.		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>erubescens</i> Hilliard & B. L. Burtt	16		Ratter & Milne 1970
<i>eylesii</i> S. Moore	16		Ratter & Prentice 1967
<i>eylesii</i> S. Moore var. <i>brevistylus</i>	16		Ratter & Milne 1970
Hilliard & B. L. Burtt			
<i>galpinii</i> Hook. f.		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>gardenii</i> Hook.		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>glandulosissimus</i> Engl.	15		Milne 1975
<i>goetzei</i> Engl.	16		Ratter & Milne 1970
<i>gracilis</i> B. L. Burtt	16		Ratter 1963
<i>gracilis</i> B. L. Burtt		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>grandis</i> N. E. Brown		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>grandis</i> N. E. Brown	16		Sugiura 1941; Ratter & Prentice 1967
<i>haygarthii</i> N. E. Brown	16		Sugiura 1941; Ratter & Prentice 1967
<i>haygarthii</i> N. E. Brown		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>hildebrandtii</i> Vatke	64		Milne 1975
<i>hilsenbergii</i> R. Br.	15		Ratter & Prentice 1967
<i>hirtinervis</i> C. B. Cl.	16		Ratter & Milne 1970
<i>holstii</i> Engl.		30	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>johannis</i> L. L. Britten	16		Ratter & Milne 1970
<i>kentaniensis</i> L. L. Britten & Story		32	Ratter & Milne 1970
<i>kirkii</i> Hook. f.		30	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>kirkii</i> Hook. f.	15		Ratter & Prentice 1967; Milne 1975
<i>kungwensis</i> Hilliard & B. L. Burtt	16		Milne 1975
'Merton Giant'		64	Lawrence 1940
<i>michelmorei</i> B. L. Burtt		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>micranthus</i> C. B. Cl.	16		Ratter & Prentice 1967
<i>molweniensis</i> Hilliard	16		Ratter & Prentice 1967
<i>montanus</i> Oliver	16		Ratter & Milne 1970
<i>muscosus</i> C. B. Cl.	15		Ratter & Milne, in Hilliard & Burtt 1971; Milne 1975
<i>nobilis</i> C. B. Cl.	15		Ratter & Milne 1970
<i>nobilis</i> C. B. Cl.		28	Mangenot & Mangenot 1957; Mangenot & Mangenot 1962

Taxon	n	2n	Reference
STREPTOCARPUS (continued)			
<i>oliganthus</i> B. L. Burtt	15		Milne 1975
<i>polyanthus</i> Hook.		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>polyanthus</i> Hook. subsp. <i>comptonii</i> (Mansf.) Hilliard		33	Ratter 1975
<i>polyanthus</i> Hook. subsp. <i>comptonii</i> (Mansf.) Hilliard	15, 16		Ratter & Prentice 1967
<i>polyanthus</i> Hook. subsp. <i>comptonii</i> (Mansf.) Hilliard		32	Lawrence, Scott-Moncrieff & Sturgess 1939
as <i>Streptocarpus comptonii</i> Mansf.			
<i>polyanthus</i> Hook. forma	16		Milne 1975
<i>primulifolius</i> Gand.	16		Ratter & Prentice 1967; Ratter 1975
<i>primulifolius</i> Gand.		32	Lawrence, in Darlington & Janaki Ammal 1945
as <i>Streptocarpus insignis</i> B. L. Burtt			
<i>prolixus</i> C. B. Cl.	16		Ratter & Prentice 1967
<i>rexii</i> (Hook.) Lind.		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>rexii</i> (Hook.) Lind.	16		Milne 1975
<i>rimicola</i> Story	16		Ratter & Prentice 1967
<i>saudersii</i> Hook.	16		Sugiura 1940b; Ratter & Prentice 1967; Ratter & Milne 1970
<i>saxorum</i> Engl.	15		Lee, in Moore 1955
<i>saxorum</i> Engl.		30	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>schliebenii</i> Mansf.	16		Milne 1975
<i>solenanthus</i> Mansf.	16		Ratter & Milne 1970
<i>stomandrus</i> B. L. Burtt	15		Milne 1975
<i>stomandrus</i> B. L. Burtt	15		Lee, in Moore 1955
<i>thompsonii</i> R. Br. var. <i>bojeri</i> (R. Br.) C. B. Cl.	15		Milne 1975
<i>thysanotus</i> Hilliard & B. L. Burtt	15		Milne 1975
<i>umtaliensis</i> B. L. Burtt	16		Ratter & Prentice 1967
<i>variabilis</i> Humbert	48		Milne 1975
“ <i>veitchii</i> ”	16		Sugiura 1938; Sugiura 1940a
<i>wendlandii</i> Sprenger	16		Sugiura 1936a; Sugiura 1936b; Ratter & Milne 1970
<i>wendlandii</i> Sprenger		32	Lawrence, Scott-Moncrieff & Sturgess 1939
TITANOTRICHUM			
<i>oldhamii</i> (Hemsl.) Soler.		±40	Fussell 1958
<i>oldhamii</i> (Hemsl.) Soler.		40	Ratter 1963

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